

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application (material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in double brackets [[]].

Group I, claims 1-6 have been elected and claims 7-12 have been withdrawn.

1. (currently amended) An apparatus for processing materials comprising a linear processing path,
~~a first machine positioned along the processing path,~~
~~a second machine positioned along the processing path,~~
a cutting machine positioned along the processing path,
a drilling machine positioned along the processing path,
~~a pusher, positioned along the processing path, between the first and second machines, and operable to feed materials, alternately, toward the first and second machines~~ **configured to feed materials toward each machine, and**
a computer including an optimizing program for receiving raw material information and determining how to process material by driving the pusher to feed material to the cutting machine and the drilling machine.
2. (original) The apparatus of claim 1, wherein each machine is equipped with an interlock device that prevents the machine from operating when the pusher is moving.
3. (original) The apparatus of claim 1, wherein each machine having a controller including a keypad for controlling operation of the respective machine with the pusher.
4. (original) The apparatus of claim 1, wherein the pusher is operatively connected to at least one computer, the computer being programmed to optimize cutting of stock to satisfy a cut list.
5. (original) The apparatus of claim 1, wherein at least one of the machines is a saw.

6. (original) The apparatus of claim 1, wherein the machines are selected from the following group: radial arm saw, sliding panel saw, upcut saw, tube cutting saw, boring machine, punch press, vertical router, metal shear, horizontal mortiser, and tenoner.

7. (withdrawn) A method of processing materials comprising providing an apparatus including a pusher positioned between first and second machines along a processing path, the pusher being operable to push work pieces alternately in opposite directions toward both machines, the pusher being controlled by a computer, an interlock being provided for each machine to prevent operation of the respective machine when the pusher is moving,

selecting the first machine for use in conjunction with the pusher,
activating the interlock for the first machine,
placing a work piece on the processing path,
driving the pusher to push the work piece a calculated distance toward the first machine,

stopping the pusher,
disengaging the interlock, and
operating the first machine to alter the work piece.

8. (withdrawn) The method of claim 7, further comprising switching operation of the pusher to feed work pieces to the second machine.

9. (withdrawn) The method of claim 7, further comprising entering the length of the work piece into the computer prior to the driving step.

10. (withdrawn) The method of claim 7, wherein the computer is programmed to optimize cutting of stock to satisfy a cut list, the method further comprising automatically calculating a plan for optimal cutting of the work piece to fulfill cut list requirements.

11. (withdrawn) The method of claim 10, further comprising executing the plan including automatically pushing the work piece toward the saw, and cutting the work piece into one or more cut list parts.

12. (withdrawn) The method of claim 7, further comprising a step selected from the following group: cutting, boring, punching, routing, mortising, sanding, drilling, shearing, and bonding.

13. (new) The apparatus of claim 1, wherein the pusher is operatively positioned between the cutting machine and the drilling machine.

14. (new) The apparatus of claim 1, wherein the pusher is configured to push material in opposite directions toward the cutting machine and the drilling machine.